

JOINS AND UNION

Consider the Country table and Persons table that you created earlier (refer sorting and grouping data)

-- DESC country;

Field	Type	Null	Key	Default	Extra
Id	int	NO	PRI	NULL	
Country_name	varchar(50)	YES		NULL	
Population	bigint	YES		NULL	
Area	int	YES		NULL	

-- DESC persons;

Field	Type	Null	Key	Default	Extra
Id	int	NO	PRI	NULL	
Fname	varchar(50)	YES		NULL	
Lname	varchar(50)	YES		NULL	
Population	bigint	YES		NULL	
Rating	decimal(3,2)	YES		NULL	
Country_Id	int	YES	MUL	NULL	
Country_name	varchar(50)	YES		NULL	

-- SELECT * FROM country;

Id	Country_name	Population	Area
1	USA	75000000	9833520
2	India	5000000	3287263
3	Canada	8000000	9984670
4	UK	150000000	243610
5	Australia	400000	7692024
6	Germany	2000000	357022
7	France	6900000	551695
8	Brazil	6000000	8515767
9	Russia	15500000	17098242
10	Japan	8650000	377930
NULL	NULL	NULL	NULL

-- SELECT * FROM person

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name
▶	1	Jeeva	Joseph	75000000	4.50	1	USA
	2	Arya	Shan	5000000	3.80	2	India
	3	Emma	Emmi	8000000	4.90	3	Canada
	4	Basim	Johny	150000000	4.20	4	UK
	5	Aryan	John	400000	3.90	5	Australia
	6	Maria	Grace	2000000	4.70	6	Germany
	7	James	Wilson	6900000	2.10	7	France
	8	Suzzy	Martin	6000000	4.00	8	Brazil
	9	Robert	Williams	15500000	1.70	9	Russia
	10	Jane	Taylor	8650000	4.60	10	Japan
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- (1)Perform inner join, Left join, and Right join on the tables.

-- (A)INNER JOIN

SELECT Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name,
Country.Population

FROM Persons

INNER JOIN Country ON Persons.Country_Id = Country.Id;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Fname	Lname	Rating	Country_name	Population
▶	Jeeva	Joseph	4.50	USA	75000000
	Aishwarya	NULL	4.50	USA	75000000
	Arya	Shan	3.80	India	5000000
	Emma	Emmi	4.90	Canada	8000000
	Basim	Johny	4.20	UK	150000000
	Aryan	John	3.90	Australia	400000
	Maria	Grace	4.70	Germany	2000000
	James	Wilson	2.10	France	6900000
	Suzzy	Martin	4.00	Brazil	6000000
	Robert	Williams	1.70	Russia	15500000
	Daisy	NULL	1.70	Russia	15500000
	Jane	Taylor	4.60	Japan	8650000

-- (B) LEFT JOIN

```
SELECT Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name,  
Country.Population
```

```
FROM Persons
```

```
LEFT JOIN Country ON Persons.Country_Id = Country.Id;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Fname	Lname	Rating	Country_name	Population
▶	Jeeva	Joseph	4.50	USA	75000000
	Arya	Shan	3.80	India	5000000
	Emma	Emmi	4.90	Canada	8000000
	Basim	Johny	4.20	UK	150000000
	Aryan	John	3.90	Australia	400000
	Maria	Grace	4.70	Germany	2000000
	James	Wilson	2.10	France	6900000
	Suzzy	Martin	4.00	Brazil	6000000
	Robert	Williams	1.70	Russia	15500000
	Jane	Taylor	4.60	Japan	8650000
	Aishw...	NULL	4.50	USA	75000000
	Daisyy	NULL	1.70	Russia	15500000

-- (C) RIGHT JOIN

```
SELECT Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name,  
Country.Population
```

```
FROM Persons
```

```
RIGHT JOIN Country ON Persons.Country_Id = Country.Id;
```

Result Grid						Filter Rows:	Export:	Wrap Cell Content:
	Fname	Lname	Rating	Country_name	Population			
▶	Jeeva	Joseph	4.50	USA	75000000			
	Aishwarya	NULL	4.50	USA	75000000			
	Arya	Shan	3.80	India	5000000			
	Emma	Emmi	4.90	Canada	8000000			
	Basim	Johny	4.20	UK	150000000			
	Aryan	John	3.90	Australia	400000			
	Maria	Grace	4.70	Germany	2000000			
	James	Wilson	2.10	France	6900000			
	Suzzy	Martin	4.00	Brazil	6000000			
	Robert	Williams	1.70	Russia	15500000			
	Daisy	NULL	1.70	Russia	15500000			
	Jane	Taylor	4.60	Japan	8650000			

-- (2) List all distinct country names from both the Country and Persons tables.

```
SELECT DISTINCT Country_name FROM Country
```

```
UNION
```

```
SELECT DISTINCT Country_name FROM Persons;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Country_name			
▶	USA			
	India			
	Canada			
	UK			
	Australia			
	Germany			
	France			
	Brazil			
	Russia			
	Japan			

-- (3) List all country names from both the Country and Persons tables, including duplicates.

```
SELECT Country_name FROM Country
```

```
UNION ALL
```

```
SELECT Country_name FROM Persons;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Country_name			
USA			
India			
Canada			
UK			
Australia			
Germany			
France			
Brazil			
Russia			
Japan			
USA			
India			
Canada			
UK			
Australia			
Germany			
France			
Brazil			
Russia			
Japan			
USA			
Russia			

-- (4)Round the ratings of all persons to the nearest integer in the Persons table

SELECT Id, Fname, Lname, ROUND(Rating, 0) AS RoundedRating

FROM Persons;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Id	Fname	Lname	RoundedRating
1	Jeeva	Joseph	5
2	Arya	Shan	4
3	Emma	Emmi	5
4	Basim	Johny	4
5	Aryan	John	4
6	Maria	Grace	5
7	James	Wilson	2
8	Suzzy	Martin	4
9	Robert	Williams	2
10	Jane	Taylor	5
11	Aishw...	NULL	5
12	Daisy	NULL	2